Method 6 / VOST Control Console

Part # 0080

User Manual

Questions? Contact us at 800-223-3977 or online at http://www.cleanair.com/equipment/Express/main.html
NOTES ABOUT THIS REVISION

IMPORTANT!!!

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   1.2 Electrical Shock

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IMPORTANT!!!

BEFORE YOU BEGIN READ THIS!!!

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE USING THIS SYSTEM!

SAVE THESE INSTRUCTIONS!!!

- To Avoid Accidents…
  ✓ Keep your work area clean and well lit.
  ✓ Keep bystanders away.
  ✓ Exercise common sense.

- Electrical Safety…
  ✓ Do not operate in combustible environments.
  ✓ DO NOT operate these products when wet or in water.
  ✓ ALWAYS be sure that the components of this system are running with the correct voltage (120V or 240V).
  ✓ Never remove a grounding prong or modify a plug.
  ✓ Do not abuse the power cord or plug.

- Personal Safety…
  ✓ The parts of this system can be heated in excess of 250 degrees Fahrenheit. Use caution when handling your equipment during and after a test.
  ✓ Stay alert and watch what you are doing.
  ✓ Dress appropriately. Wear the appropriate personal safety devices.

- Equipment Maintenance…
  ✓ Take great care when handling glassware, it is very fragile.
  ✓ Clean Air Express can not ensure that our VOST meter is compatible with any other systems. See http://www.cleanair.com or call (800) 223-3977 for more information.
  ✓ Maintenance and repairs should be performed by one of Clean Air Express’s trained technicians.
Customer Feedback

Clean Air Engineering takes pride in our quality products and services. We strive to provide the highest quality products and services in the industry. We realize the importance of end user input in the continual improvement of our products and services. Customer feedback is of paramount importance. **We encourage your feedback with any suggestions or problems that can help us improve our performance.** A customer feedback form is available online at [http://www.cleanair.com/About/feedback.html](http://www.cleanair.com/About/feedback.html). To emphasize our commitment to quality products and complete customer satisfaction, Clean Air Engineering’s manufacturing division, CAE Express, offers what we feel is the best and most comprehensive warranty in the environmental industry.
1 Safety
Safety should always be considered first, and proper safety procedures should be followed.

1.1 Weight and Bulk
The Method 6 / VOST Control Console weighs approximately 30 pounds (13.6 kg) and has dimensions of 14” x 14” x 11” (356mm x 356mm x 279mm). It is made to be easy to lift and carry. However, remember to use good lifting technique in order to avoid injury.

1.2 Electrical Shock
The system is powered by a standard 120 VAC line, meaning potentially fatal shocks are possible. It is no more dangerous than many household appliances in this regard; however, care must be taken to avoid shock. Before performing any maintenance or removing the back cover, turn off and unplug the console from the 120 VAC line. Be sure to always use the correct voltage to reduce the risk of accidents.
2 Principles of Operation

The Method 6 / VOST Control Console is designed to perform EPA methods 6, 6a, 6b, 15, 18, 26, and VOST. It is suitable for use with any low flow sampling method that requires accurate volume measurement. Its features include built in digital temperature control and indication, vacuum and pressure gauges, dual float rotometer, stainless steel fine and coarse valves and an internal diaphragm vacuum pump. The internal components of the Method 6 / VOST Control Console can be accessed by removing the back panel.

2.1 Analytes of methods

- Method 6 – SO$_2$
- Method 6a & 6b – SO$_2$, CO$_2$
- Method 15 - Hydrogen Sulfide, Carbonyl Sulfide, and Carbon Disulfide
- Method 18 – Gaseous Organic Compounds
- Method 26 - Halides (HCl, HBr, HF), Halogens (Cl$_2$, Br$_2$, F$_2$)
- VOST - Volatile Organic Sampling Train, Gaseous Organic Compounds

2.2 System Components

See Figure 1.

- (1) – Rotometer
- (2) – Timer
- (3) – Circuit breaker switches
- (4) - Probe and filter temperature controllers
- (5) – 4 channel temperature indicator
- (6) – 4 position switch
- (7) – Switches for probe and filter temperature controllers
- (8) – Vacuum gauge
- (9) – Power cord
- (10) – Sample line connection
- (11) – Umbilical Amphenol connection
- (12) – Mini thermocouple outlets
- (13) – Dry gas meter index
- (14) – Fine flow adjustment knob
- (15) – Coarse flow adjustment knob
- (16) –Power connections
- (17) – Differential pressure gauge (0-5” minihelic)
(7) on/off
Switches for
Temp.
Controllers

(4)
Probe/Filter
Temp.
Controllers

(5) 4
Channel
Temp.
Indicator

(6) Switch

(8) Vacuum
Gauge

(9) Power
Cord

(10) Sample Line
Connection

(11) Umbilical
Amphenol
Connection

(2) Timer

(3) Circuit breakers

(13) Dry gas
meter index

(14) Fine Control
Adjustment

(15) Coarse
Control Adjustment

(16) Power
Connection

(12) Thermocouple
Inputs

(1) Rotometer

(17) Differential
Pressure
Gauge
2.3 **System Operation**

2.3.1 **Description of Controls**

- **AC Power Connection (16):** provides power to the water pump
- **Amphenol Connection (11):** provides power to the probe heater and mini thermocouple bank
- **Coarse Control Adjustment (15):** opens and closes the sample line
- **Dry Gas Meter (13):** displays the volume of gas flowing through the internal diaphragm pump; one revolution equal 1.0 cubic liter of gas. The index indicator accumulates and displays the total gas volume. (see Figure 2)
- **Fine Control Adjustment (14):** When coarse control is open, this is used to fine-tune the gas flow rate through the system. Turn clockwise to open.
- **Internal Diaphragm pump:** operates at a standard free flow of 9.2 L/min. Max vacuum is 25.2 in HG. Max pressure is 7 PSIG.
- **Temperature Indicator (5):** displays the temperature of each point on the selector switch (dry gas meter inlet, dry gas meter outlet, two auxiliary ports).
- **Mini thermocouple Plug Input Bank (12):** All male thermocouple plugs on the umbilical assembly are connected here (probe, filter, two auxiliary ports).
- **Timer (2):** displays minutes and seconds. A backup battery is provided in case of power failure. Timer will not actuate unless the timer switch is turned on.
- **Temperature Controllers (4):** The programmable temperature controllers regulate the temperature of the sampling probe and the filter assembly oven. The controllers are set to operate at 250 degrees Fahrenheit. To change this set point use the following steps: (see Figure 3)
  1.) Press the select button (3-2). 250°F will be displayed.
  2.) Use the up and down buttons (3-1) to change the set point
  3.) Re-autotune your equipment to the new set point
  4.) Press both the up and down controls (3-1) simultaneously until AUT appears
  5.) Press the select button (3-2) and hold. NO will appear
  6.) Press the up and select buttons (3-1,3-2) simultaneously until YES appears. Release
  7.) The controller will autotune to the new set point. The display will flash TUNE
  8.) Autotuning is complete when the flashing stops
2.3.2 Use With EPA Method 6

1.) Set control console on a level surface.
2.) Arrange the glassware according to the Method 6 sampling method. See Figure 5 for the Method 6 sampling train.
3.) Attach the probe to the midget sample unit at the probe support arm (4-1) (see Figure 4). Use care in aligning the probe and the glassware.
4.) Use the proper umbilical. (0362-10, 0362-15 and 0362-25 if ordered from Clean Air Express). Connect the sample line, 4 pin Amphenol, thermocouple plugs (4-5), and the probe.

**NOTE:** When using this method the water pump is **not** used. The midget impingers sit in an ice bath.
Figure 5 – Method 6 Sample Train

- Probe Temperature
- Stack Wall
- Heated Probe
- Midget Impingers
- Ice Bath
- Vacuum Line
- Thermometers Outlet
- Main Vacuum
- By-Pass
- Vacuous Air-Tight Pump
- Dry Gas
- Glass Wool
2.3.3 Use With VOST Method

1.) Set control console on a level surface.
2.) Arrange the glassware according to the VOST sampling method. See Figure 6 for the VOST sampling train.
3.) Attach the probe to the sample unit being used. Use care in aligning the probe and the glassware.
4.) Use the proper umbilical. (0364-15, 0364-25 and 0364-50 if ordered from Clean Air Express). Connect the sample line, 4 pin Amphenol, thermocouple plugs, and the probe.
5.) Connect the water pump to the control console as follows:
   a.) Place the submersible water pump in the water cooling compartment
   b.) Connect cooling tubes to the glassware in a recirculating loop and check for leaks. The hoses run from the condenser trap to the straight condenser to the ice bath.
   c.) Plug the power plug into the connection marked “water.”
   d.) Turn the pump on during testing.

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Figure 6 – VOST Sample Train
2.3.4 Use With EPA Method 26

1.) Set control console on a level surface.

2.) Arrange the glassware according to the EPA Method 26. See Figure 8 for the Method 26 sampling train.

3.) Attach the probe to the CATECO filter unit (see Figure 7a, Figure 7b). Use care in aligning the probe and the glassware.

4.) Use the proper umbilical. Connect as follows:
   a.) Attach the probe to the probe support arm (7-1) on the CATECO heated filter unit. Tighten.
   b.) Connect the sample line onto the male fitting of the umbilical adapter.
   c.) Connect the Amphenol cable to the four pin socket (7-2).
   d.) Connect the female thermocouple plug labeled with the words “impinger outlet” or the number “4” to the male thermocouple on the impinger outlet (7-3).

5.) Connect the water pump to the control console as follows:
   a.) Place the submersible water pump in the water cooling compartment
   b.) Connect cooling tubes to the glassware in a recirculating loop and check for leaks. The hoses run from the condenser trap to the straight condenser to the ice bath.
   c.) Plug the power plug into the connection marked “water.”
   d.) Turn the pump on during testing.
Figure 8 – Method 26 Sample Train
3 Routine Maintenance and Inspection

⚠️ CAUTION!! – Do NOT disassemble this product! For internal maintenance contact Clean Air Express.

3.1 Console Maintenance
General cleanliness will extend the life of your equipment. The outside of the console can be safely cleaned with window cleaner or soapy water. Always check the inside for oil leaks, tubing damage, and wire damage. It is also recommended that the unit is returned to CleanAir Express annually for recalibration and maintenance. All tubing will be replaced (932511), a full electrical test will be performed, and the system will be recalibrated. Yearly recalibration is necessary.

3.2 Other Maintenance Issues
For any other maintenance issues, concerns, or questions, please contact Clean Air Express at (800)-223-3977. Clean Air Express can also be reached by mail at 212 N. Woodwork Lane Palatine, IL 60067; by fax at (847)-991-8924 or on the web at http://www.cleanair.com/equipment/Express/main.html
## 4 Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause(s)</th>
<th>Fix</th>
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</thead>
<tbody>
<tr>
<td>Heated probe or filter does not warm up</td>
<td>Bad connection, Blown fuse, Bad relay, Bad thermocouples</td>
<td>Check all connections, Reset circuit breakers, Replace relay <em>(9129)</em>, Replace thermocouples</td>
</tr>
<tr>
<td>System does not pass a leak check</td>
<td>Bad connections, Worn tubing, Dirty filter</td>
<td>Check all connections, Check all tubing, Check filter</td>
</tr>
<tr>
<td>Low flow or no flow</td>
<td>Dirty filter, Closed valves, Exhaust closed</td>
<td>Replace filter, Be sure the valves are open, Be sure the exhaust is open</td>
</tr>
</tbody>
</table>
Figure 9
# Parts List

## CLEAN AIR ENGINEERING

**PARTS LIST**

**METHOD 6 / VOST METER**

**May 28, 2008**

**Parent Part #: 0080**

**Type: A**

**Sub Part #: 0080C**

**VOST CHASIS SUB ASSEMBLY**

**Type: A**

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<tr>
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<tr>
<td>0080CHA</td>
<td>VOST METER CHASSIS OUTER SHELL</td>
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<td>0080DF</td>
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<td>080DR</td>
<td>VOST METER REAR DOOR</td>
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<td>9927</td>
<td>METER BOX HANDLE</td>
<td>3.0</td>
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<tr>
<td>99372</td>
<td>PUMP KNF 115V/60HZ</td>
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<td>EA</td>
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<td>95161</td>
<td>MALE CONNECTOR 1/8&quot; MNPT-3/16&quot; ID HOSE BRASS</td>
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<td>9515</td>
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<tr>
<td>99422</td>
<td>SERIES 50 SLIDE LATCH</td>
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**Sub Part #: 0080D**

**VOST DRY GAS METER SUB ASSEMBLY**

**Type: A**

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<td>9922G</td>
<td>INDEX DRIVE GEAR F/METRIC</td>
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<td>SS DGM BRACKET</td>
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## Clean Air Engineering
### Parts List
#### Method 6 / Vost Meter

**Sub Part #: 0080F**  
**Vost Face Plate Sub Assembly**

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<td>Ball Valve Vost</td>
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<td>Needle Valve For Vost Unit</td>
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<td>9133A</td>
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<td>R</td>
</tr>
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Method 6 / VOST Control Console

- Temperatur e Controller 91301
- Power Cord 9109
- Flow Meter 9969
- Power Connection 9141A
- 4 Pin Amphenol Connection 9418
- Dry Gas Meter 9922
- Tubing 9325
- Relay 9129
Our Guarantee

Clean Air Engineering warrants products to be free from defects and workmanship for a period of one year after delivery date. The sole and exclusive remedy for defective goods shall be repair or replacement of defective parts or payment price of the goods for which damages are claimed, at Clean Air Engineering’s option.

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